

# SEQUENCE LISTING

<110> Lawrence, Papsidero  
Lyn, Dyster  
Jana, Frustaci

<120> Detection and Treatment of Breast Cancer

<130> 3380/1I127-US4

<140> TBA

<141> Concurrently Herewith

<150> 09/146,580

<151> 1998-09-03

<150> 60/071,899

<151> 1998-01-20

<150> 60/092,155

<151> 1998-07-09

<160> 35

<170> PatentIn version 3.0

<210> 1

<211> 127

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (70)..(70)

<223> Xaa at position 70 is either Arg or Gly

<220>

<221> UNSURE

<222> (91)..(91)

<223> Xaa at position 70 is either Lys or Asn

<400> 1

Met	Gln	Gln	Arg	Gly	Leu	Ala	Ile	Val	Ala	Leu	Ala	Val	Cys	Ala	Ala
1				5				10					15		

Leu	His	Ala	Ser	Glu	Ala	Ile	Leu	Pro	Ile	Ala	Ser	Ser	Cys	Cys	Thr
			20					25					30		

Glu	Val	Ser	His	His	Ile	Ser	Arg	Arg	Leu	Leu	Glu	Arg	Val	Asn	Met
		35					40					45			
Cys	Arg	Ile	Gln	Arg	Ala	Asp	Gly	Asp	Cys	Asp	Leu	Ala	Ala	Val	Ile
	50					55					60				
Leu	His	Val	Lys	Arg	Xaa	Arg	Ile	Cys	Val	Ser	Pro	His	Asn	His	Thr
65					70					75					80
Val	Lys	Gln	Trp	Met	Lys	Val	Gln	Ala	Ala	Xaa	Lys	Asn	Gly	Lys	Gly
				85					90					95	
Asn	Val	Cys	His	Arg	Lys	Lys	His	His	Gly	Lys	Arg	Asn	Ser	Asn	Arg
			100					105					110		
Ala	His	Gln	Gly	Lys	His	Glu	Thr	Tyr	Gly	His	Lys	Thr	Pro	Tyr	
		115					120					125			

<210> 2

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (47)..(47)

<223> Xaa at position 47 is either Arg or Gly

<220>

<221> UNSURE

<222> (68)..(68)

<223> Xaa at position 47 is either Lys or Asn

<400> 2

Leu	Pro	Ile	Ala	Ser	Ser	Cys	Cys	Thr	Glu	Val	Ser	His	His	Ile	Ser
1				5					10					15	
Arg	Arg	Leu	Leu	Glu	Arg	Val	Asn	Met	Cys	Arg	Ile	Gln	Arg	Ala	Asp
		20						25					30		
Gly	Asp	Cys	Asp	Leu	Ala	Ala	Val	Ile	Leu	His	Val	Lys	Arg	Xaa	Arg
		35					40					45			
Ile	Cys	Val	Ser	Pro	His	Asn	His	Thr	Val	Lys	Gln	Trp	Met	Lys	Val
	50					55					60				
Gln	Ala	Ala	Xaa	Lys	Asn	Gly	Lys	Gly	Asn	Val	Cys	His	Arg	Lys	Lys



<221> unsure

<222> (1)..(3117)

<223> n at any position in the sequence may represent a or g or c or t/

<400> 6

aacatcctca cttgtgttgc tgtcagtgcc tgtanggcag gcaggaatgc agcagagagg	60
actcgccatc gtggccttgg ctgtctgtgc ggccctacat gcctcagaag ccatacttcc	120
cattgcctcc agctgttgca cggaggtttc acatcatatt tccagaaggc tcctggaaag	180
agtgaatatg tgtcgcaccc agagagctga tggggattgt gacttggctg ctgtcatcct	240
tcattgtcaag cgcngaagaa tctgtgtcag cccgcacaac cataactgtta agcagtggat	300
gaaagtgcaa gctgcccaana aaaatggtaa aggaaatggt tgccacagga agaaacacca	360
tggcaagagg aacagtaaca gggcacatca ggggaaacac gaaacatacg gccataaaac	420
tccttattag agaatctaca gataaatcta cagagacaat cccccaagtg gacttggcca	480
tgaattgggtg taagtattatc atctgaattc tccttattgt agacaacaga acaaaacaaa	540
atattgggtt ttaaaaaatg aacaattgtg ccgtatgcaa atgtacccaa taatatactc	600
cactggaaaa tgaaatgaaa aaannatact ggctgggtat ggtgggtccc cccttttattc	660
ccannnnctt cgggaggcag aggcaggagg atcacttgag accaggantt ngagacnagc	720
tnggggcaaa anagcaanga cntcatttnt acaaachnaaa aaaaannttg gcccgcntg	780
gtagnacttg cntataatcc cagcnacatg ggaggtngag gtgggaggat cacttgagtc	840
tggngaggt ngaggtngca gtgagcagcn tgggtgacag aatgnagacc ntgtctctaa	900
aaataataat aataatgata gtgtatatct tcatataata ttttaagnag gagcatatag	960
atataacttn ctcccaactt tttaattata gttttccaaa cttacagaga agttaaaga	1020
atggtacaat gaacatctat atatctttca ccacaatatt aatcattgtt aatattgtgc	1080
cacatttgct ttctctctcc tctcttggtg ggggttncaa tataaaatat tataactttt	1140
aaaatatatc ttgttttgct aaccattgga aaataagttg caaaaatcat gacacttcac	1200
ccctagtttc ttttnggtgt tataacttga cataccctaa aataaagaca tttttctaca	1260
taatcacctt atcagtttta tacctaaaaa attaataatt tcatctaata tattccatat	1320

tcaaattttc	ccaactat	agagagcatt	ttatgtagtt	tttttttcac	tccagtaatc	1380
aatcaaggtn	gacatacata	ttgcaaataa	ttgttat	tctttaatat	ctttcaatct	1440
aagaaagt	ctctgtct	ttttttta	ttttaaa	at	ttt	1500
tgctgtgt	tccaggct	agtgcagt	cacaatt	at	ttt	1560
caactttag	gctcaagca	tcctcccac	tcagcctn	cgagtat	ggatcaagg	1620
gcataccca	cacacctg	taattttg	tatttttt	agagacagg	tctcactat	1680
ttgcccagg	tgatctcaa	ctcctggg	caagcgat	tcccaccta	gcctcccaa	1740
gtactggga	tatagggt	agccacagt	cctggccta	ttattttct	gtgatcaa	1800
tcagggttaa	tgtttttg	taagaatt	ctacgtga	tcgtgtact	at	1860
ttagagttca	taaatatt	ggtttat	ctaaataga	tagtttaa	t	1920
ttcaaaacg	ctagtttg	tagctacc	tgtttgga	gaaatttt	gatactgaa	1980
agaacaaaa	gcctgcct	ctgcccana	csnnttgcy	ccccagtna	gttcttgng	2040
cagnactagt	tagggnccca	gagttnggc	ttngkgtgg	tgattttang	ytctgccta	2100
acaaggngcn	wacatytt	agctcctat	ccaccyttct	namamgttt	tgttgtkgt	2160
tenntgttt	tttkgagaca	grrntnaye	ctgtttgccc	argctggart	tg	2220
caatytnngy	tncattgcaa	cytcngcytc	cssgccgttc	aaktgatyyt	cttgcytcag	2280
cytccccaag	taantgat	tacaggngcc	cagccaccam	accccgntga	wttttgtatt	2340
tttartarar	amrggggt	cccgcnttg	cngggctgg	ctcnaantcc	ttgamctcna	2400
ktgaaccacc	cgctgtgcc	ycccaaantg	ctggaattac	cancgttgan	ccaccatgcc	2460
gggcycacac	gtttgart	ganaccattg	tnccattcct	cttttggcct	yttttttntc	2520
catagnngct	tcaagataga	tangtaagrg	cccagtagtn	gttcwtarga	agcnmatagr	2580
rancrggar	cantttnatc	aggtgggcag	gtgtccnngg	cytccttgct	ggytnntccc	2640
aagcgggtgg	gttgccarga	nktnttggar	gtgataatgg	gananaccag	naggcmctga	2700
gtyncnntag	gttnaaatgc	cacaaaaact	ggcctttggc	ctaataccy	ycnttgamta	2760
nttarcat	awtttat	ttncctgac	at	nt	tg	2820

nctntatara wgargaaatt tgaggntytt araggtaaaa tganttgcnc nrgtnnacmc 2880  
 aggaagtggc nraranaanc tttttanatn mgaaaaaatt aataaaatat aatatgagag 2940  
 taacttaaaa tattaataaa ccacaatttt aaattaatta accgtgataa ccaacattaa 3000  
 taaaagttaa gataccaaaa cactggtgtn taattttttt aactaacaan ttgaattatt 3060  
 ttccatttta aattaattaa ccgtgataac caacattaat aaaagttaag ataccg 3117

<210> 7  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> unsure  
 <222> (207)..(207)  
 <223> n may represent a or g or c or t/u

<220>  
 <221> unsure  
 <222> (272)..(272)  
 <223> n may represent a or g or c or t/u

<400> 7  
 atgcagcaga gaggactcgc catcgtggcc ttggctgtct gtgcggccct acatgcctca 60  
 gaaagccatac ttcccattgc ctccagctgt tgcacggagg tttcacatca tatttccaga 120  
 aggctcctgg aaagagtgaat tatgtgtcgc atccagagag ctgatgggga ttgtgacttg 180  
 gctgctgtca tccttcatgt caagcgcnga agaattctgtg tcagcccgcga caaccatact 240  
 gttaagcagt ggatgaaagt gcaagctgcc aanaaaaatg gtaaaggaaa tgtttgccac 300  
 aggaagaaac accatggcaa gaggaacagt aacagggcac atcaggggaa acacgaaaca 360  
 tacggccata aaactcctta t 381

<210> 8  
 <211> 104  
 <212> DNA  
 <213> Homo sapiens

<400> 8

acacgaattc acgtaggaaa ttcttaacca aaaacattaa acctgaattt gatcacaaga 60  
aaataattag gccaggcact gtggctcaca cctataatcc cagt 104

<210> 9  
<211> 25  
<212> DNA  
<213> Homo sapiens

<400> 9  
gaattcacgt aggaaattct taacc 25

<210> 10  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 10  
actgggatta taggtgtgag cc 22

<210> 11  
<211> 311  
<212> DNA  
<213> Homo sapiens

<220>  
<221> unsure  
<222> (101)..(101)  
<223> n may be a or g or c or t/u

<220>  
<221> unsure  
<222> (162)..(162)  
<223> n may be a or g or c or t/u

<400> 11  
ggagagagcc gtatgtttcg tgtttcccct gatgtgccct gttactgttc ctcttgccat 60  
ggtgtttcctt cctgtggcaa acatttcctt taccattttt nttggcagct tgcactttca 120  
tccactgctt aacagtatgg ttgtgcgggc tgacacagat tnttctgcgc ttgacatgaa 180  
ggatgacagc agccaagtca caatccccat cagctctctg gatgcgacac atattcactc 240  
tttccaggag ccttctggaa atatgatgtg aaacctccgt gcaacagctg gaggcaatgg 300

gaagtatggc t 311

<210> 12  
<211> 20  
<212> DNA  
<213> Artificial

<220>  
<223> Sequencing primer T7

<400> 12  
taatacgact cactataggg 20

<210> 13  
<211> 18  
<212> DNA  
<213> Artificial

<220>  
<223> pCR3.1 Reverse Primer

<400> 13  
tagaaggcac agtcgagg 18

<210> 14  
<211> 22  
<212> DNA  
<213> Artificial

<220>  
<223> Gene specific primer (24R)

<400> 14  
actgggatta taggtgtgag cc 22

<210> 15  
<211> 24  
<212> DNA  
<213> Artificial

<220>  
<223> Gene specific primer (24R2)

<400> 15  
caaattcagg tttaatgttt ttgg 24



<210> 16  
<211> 21  
<212> DNA  
<213> Artificial

<220>  
<223> Gene specific primer (F4 )

<400> 16  
ctcaaacgtg tgagcccggc a

21

<210> 17  
<211> 25  
<212> DNA  
<213> Artificial

<220>  
<223> Gene specific primer (F3)

<400> 17  
gtactcaaa ctagacgttt tgaag

25

<210> 18  
<211> 24  
<212> DNA  
<213> Artificial

<220>  
<223> primers F8

<400> 18  
ccgtatgttt cgtgtttccc ctga

24

<210> 19  
<211> 24  
<212> DNA  
<213> Artificial

<220>  
<223> Primer R5

<400> 19  
agccatactt cccattgcct ccag

24

<210> 20  
<211> 150

<212> PRT  
<213> Homo sapiens

<400> 20

Met	Asn	Leu	Trp	Leu	Leu	Ala	Cys	Leu	Val	Ala	Gly	Phe	Leu	Gly	Ala
1				5					10					15	
Trp	Ala	Pro	Ala	Val	His	Thr	Gln	Gly	Val	Phe	Glu	Asp	Cys	Cys	Leu
			20					25					30		
Ala	Tyr	His	Tyr	Pro	Ile	Gly	Trp	Ala	Val	Leu	Arg	Arg	Ala	Trp	Thr
		35					40					45			
Tyr	Arg	Ile	Gln	Glu	Val	Ser	Gly	Ser	Cys	Asn	Leu	Pro	Ala	Ala	Ile
	50					55					60				
Phe	Tyr	Leu	Pro	Lys	Arg	His	Arg	Lys	Val	Cys	Gly	Asn	Pro	Lys	Ser
65					70					75					80
Arg	Glu	Val	Gln	Arg	Ala	Met	Lys	Leu	Leu	Asp	Ala	Arg	Asn	Lys	Val
				85					90					95	
Phe	Ala	Lys	Leu	His	His	Asn	Met	Gln	Thr	Phe	Gln	Ala	Gly	Pro	His
			100					105					110		
Ala	Val	Lys	Lys	Leu	Ser	Ser	Gly	Asn	Ser	Lys	Leu	Ser	Ser	Ser	Lys
			115				120						125		
Phe	Ser	Asn	Pro	Ile	Ser	Ser	Ser	Lys	Arg	Asn	Val	Ser	Leu	Leu	Ile
	130					135					140				
Ser	Ala	Asn	Ser	Gly	Leu										
145					150										

<210> 21  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 21

Met	Cys	Cys	Thr	Lys	Ser	Leu	Leu	Leu	Ala	Ala	Leu	Met	Ser	Val	Leu
1				5					10					15	
Leu	Leu	His	Leu	Cys	Gly	Glu	Ser	Glu	Ala	Ser	Asn	Phe	Asp	Cys	Cys
			20					25					30		
Leu	Gly	Tyr	Thr	Asp	Arg	Ile	Leu	His	Pro	Lys	Phe	Ile	Val	Gly	Phe
		35					40					45			

Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile Phe  
50 55 60

His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr Trp  
65 70 75 80

Val Lys Tyr Ile Val Arg Leu Leu Ser Lys Lys Val Lys Asn Met  
85 90 95

<210> 22  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 22

Met Ala Pro Leu Lys Met Leu Ala Leu Val Thr Leu Leu Leu Gly Ala  
1 5 10 15

Ser Leu Gln His Ile His Ala Ala Arg Gly Thr Asn Val Gly Arg Glu  
20 25 30

Cys Cys Leu Glu Tyr Phe Lys Gly Ala Ile Pro Leu Arg Lys Leu Lys  
35 40 45

Thr Trp Tyr Gln Thr Ser Glu Asp Cys Ser Arg Asp Ala Ile Val Phe  
50 55 60

Val Thr Val Gln Gly Arg Ala Ile Cys Ser Asp Pro Asn Asn Gln Arg  
65 70 75 80

Val Lys Asn Ala Val Lys Tyr Leu Gln Ser Leu Glu Arg Ser  
85 90

<210> 23  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 23

Met Gln Ile Ile Thr Thr Ala Leu Val Cys Leu Leu Leu Ala Gly Met  
1 5 10 15

Trp Pro Glu Asp Val Asp Ser Lys Ser Met Gln Val Pro Phe Ser Arg  
20 25 30

Cys Cys Phe Ser Phe Ala Glu Gln Glu Ile Pro Leu Arg Ala Ile Leu  
35 40 45

Cys Tyr Arg Asn Thr Ser Ser Ile Cys Ser Asn Glu Gly Leu Ile Phe  
 50 55 60

Lys Leu Lys Arg Gly Lys Glu Ala Cys Ala Leu Asp Thr Val Gly Trp  
 65 70 75 80

Val Gln Arg His Arg Lys Met Leu Arg His Cys Pro Ser Lys Arg Lys  
 85 90 95

<210> 24  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 24

Ala Gln Pro Asp Ser Val Ser Ile Pro Ile Thr Cys Cys Phe Asn Val  
 1 5 10 15

Ile Asn Arg Lys Ile Pro Ile Gln Arg Leu Glu Ser Tyr Thr Arg Ile  
 20 25 30

Thr Asn Ile Gln Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Lys Arg  
 35 40 45

Gly Lys Glu Val Cys Ala Asp Pro Lys Glu Arg Trp Val Arg Asp Ser  
 50 55 60

Met Lys His Leu Asp Gln Ile Phe Gln Asn Leu Lys Pro  
 65 70 75

<210> 25  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 25

Met Lys Val Ser Ala Val Leu Leu Cys Leu Leu Leu Met Thr Ala Ala  
 1 5 10 15

Phe Asn Pro Gln Gly Leu Ala Gln Pro Asp Ala Leu Asn Val Pro Ser  
 20 25 30

Thr Cys Cys Phe Thr Phe Ser Ser Lys Lys Ile Ser Leu Gln Arg Leu  
 35 40 45

Lys Ser Tyr Val Ile Thr Thr Ser Arg Cys Pro Gln Lys Ala Val Ile  
 50 55 60

Phe Arg Thr Lys Leu Gly Lys Glu Ile Cys Ala Asp Pro Lys Glu Lys  
65 70 75 80

Trp Val Gln Asn Tyr Met Lys His Leu Gly Arg Lys Ala His Thr Leu  
85 90 95

Lys Thr

<210> 26  
<211> 97  
<212> PRT  
<213> Homo sapiens

<400> 26

Met Lys Val Ser Ala Ala Leu Leu Trp Leu Leu Leu Ile Ala Ala Ala  
1 5 10 15

Phe Ser Pro Gln Gly Leu Ala Gly Pro Ala Ser Val Pro Thr Thr Cys  
20 25 30

Cys Phe Asn Leu Ala Asn Arg Lys Ile Pro Leu Gln Arg Leu Glu Ser  
35 40 45

Tyr Arg Arg Ile Thr Ser Gly Lys Cys Pro Gln Lys Ala Val Ile Phe  
50 55 60

Lys Thr Lys Leu Ala Lys Asp Ile Cys Ala Asp Pro Lys Lys Lys Trp  
65 70 75 80

Val Gln Asp Ser Met Lys Tyr Leu Asp Gln Lys Ser Pro Thr Pro Lys  
85 90 95

Pro

<210> 27  
<211> 99  
<212> PRT  
<213> Homo sapiens

<400> 27

Met Lys Ala Ser Ala Ala Leu Leu Cys Leu Leu Leu Thr Ala Ala Ala  
1 5 10 15

Phe Ser Pro Gln Gly Leu Ala Gln Pro Val Gly Ile Asn Thr Ser Thr  
20 25 30

Thr Cys Cys Tyr Arg Phe Ile Asn Lys Lys Ile Pro Lys Gln Arg Leu  
35 40 45

Glu Ser Tyr Arg Arg Thr Thr Ser Ser His Cys Pro Arg Glu Ala Val  
50 55 60

Ile Phe Lys Thr Lys Leu Asp Lys Glu Asp Cys Ala Asp Pro Thr Gln  
65 70 75 80

Lys Trp Val Gln Asp Pro Met Lys His Leu Asp Lys Lys Thr Gln Thr  
85 90 95

Pro Lys Leu

<210> 28

<211> 99

<212> PRT

<213> Homo sapiens

<400> 28

Met Lys Val Ser Ala Ala Leu Leu Cys Leu Leu Leu Thr Ala Ala Ala  
1 5 10 15

Phe Ile Pro Gln Gly Leu Ala Gln Pro Asp Ala Ile Asn Ala Pro Val  
20 25 30

Thr Cys Cys Tyr Asn Phe Thr Asn Arg Lys Ile Ser Val Gln Arg Leu  
35 40 45

Ala Ser Tyr Arg Arg Ile Thr Ser Ser Lys Cys Pro Lys Glu Ala Val  
50 55 60

Ile Phe Lys Thr Ile Val Ala Lys Glu Asp Cys Ala Asp Pro Lys Gln  
65 70 75 80

Lys Trp Val Gln Asp Ser Met Asp His Leu Asp Lys Gln Thr Gln Thr  
85 90 95

Pro Lys Thr

<210> 29

<211> 91

<212> PRT

<213> Homo sapiens

<400> 29

Met	Lys	Val	Ser	Ala	Ala	Arg	Leu	Ala	Val	Ile	Leu	Ile	Ala	Thr	Ala			
1				5					10					15				
Leu	Cys	Ala	Pro	Ala	Ser	Ala	Ser	Pro	Tyr	Ser	Ser	Asp	Thr	Thr	Pro			
			20					25					30					
Cys	Cys	Phe	Ala	Tyr	Ile	Ala	Arg	Pro	Leu	Pro	Arg	Ala	His	Ile	Lys			
		35					40					45						
Glu	Tyr	Phe	Tyr	Thr	Ser	Gly	Lys	Cys	Ser	Asn	Pro	Ala	Val	Val	Phe			
	50					55					60							
Val	Thr	Arg	Lys	Asn	Arg	Gln	Val	Cys	Ala	Asn	Pro	Glu	Lys	Lys	Trp			
65					70					75					80			
Val	Arg	Glu	Tyr	Ile	Asn	Ser	Leu	Glu	Met	Ser								
				85					90									

<210> 30  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 30

Met	Lys	Ile	Ser	Val	Ala	Ala	Ile	Pro	Phe	Phe	Leu	Leu	Ile	Thr	Ile			
1				5					10					15				
Ala	Leu	Gly	Thr	Lys	Thr	Glu	Ser	Ser	Ser	Arg	Gly	Pro	Tyr	His	Pro			
			20					25					30					
Ser	Glu	Cys	Cys	Phe	Thr	Tyr	Thr	Thr	Tyr	Lys	Ile	Pro	Arg	Gln	Arg			
		35					40					45						
Ile	Met	Asp	Tyr	Tyr	Glu	Thr	Asn	Ser	Gln	Cys	Ser	Lys	Pro	Gly	Ile			
	50					55					60							
Val	Phe	Ile	Thr	Lys	Arg	Gly	His	Ser	Val	Cys	Thr	Asn	Pro	Ser	Asp			
65					70					75					80			
Lys	Trp	Val	Gln	Asp	Tyr	Ile	Lys	Asp	Met	Lys	Glu	Asn						
				85					90									

<210> 31  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 31

Met Lys Leu Cys Val Thr Val Leu Ser Leu Leu Met Leu Val Ala Ala  
 1 5 10 15  
 Phe Cys Ser Pro Ala Leu Ser Ala Pro Met Gly Ser Asp Pro Pro Thr  
 20 25 30  
 Ala Cys Cys Phe Ser Tyr Thr Ala Arg Lys Leu Pro Arg Asn Phe Val  
 35 40 45  
 Val Asp Tyr Tyr Glu Thr Ser Ser Leu Cys Ser Gln Pro Ala Val Val  
 50 55 60  
 Phe Gln Thr Lys Arg Ser Lys Gln Val Cys Ala Asp Pro Ser Glu Ser  
 65 70 75 80  
 Trp Val Gln Glu Tyr Val Tyr Asp Leu Glu Leu Asn  
 85 90

<210> 32  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 32

Met Gln Val Ser Thr Ala Ala Leu Ala Val Leu Leu Cys Thr Met Ala  
 1 5 10 15  
 Leu Cys Asn Gln Val Leu Ser Ala Pro Leu Ala Ala Asp Thr Pro Thr  
 20 25 30  
 Ala Cys Cys Phe Ser Tyr Thr Ser Arg Gln Ile Pro Gln Asn Phe Ile  
 35 40 45  
 Ala Asp Tyr Phe Glu Thr Ser Ser Gln Cys Ser Lys Pro Ser Val Ile  
 50 55 60  
 Phe Leu Thr Lys Arg Gly Arg Gln Val Cys Ala Asp Pro Ser Glu Glu  
 65 70 75 80  
 Trp Val Gln Lys Tyr Val Ser Asp Leu Glu Leu Ser Ala  
 85 90

<210> 33  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 33



Met Gln Val Ser Thr Ala Ala Leu Ala Val Leu Leu Cys Thr Met Ala  
 1 5 10 15  
 Leu Cys Asn Gln Phe Ser Ala Ser Leu Ala Ala Asp Thr Pro Thr Ala  
 20 25 30  
 Cys Cys Phe Ser Tyr Thr Ser Arg Gln Ile Pro Gln Asn Phe Ile Ala  
 35 40 45  
 Asp Tyr Phe Glu Thr Ser Ser Gln Cys Ser Lys Pro Gly Val Ile Phe  
 50 55 60  
 Leu Thr Lys Arg Ser Arg Gln Val Cys Ala Asp Pro Ser Glu Glu Trp  
 65 70 75 80  
 Val Gln Lys Tyr Val Ser Asp Leu Glu Leu Ser Ala  
 85 90

<210> 34  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 34

Met Lys Gly Leu Ala Ala Ala Leu Leu Val Leu Val Cys Thr Met Ala  
 5 10 15  
 Leu Cys Ser Cys Ala Gln Val Gly Thr Asn Lys Glu Leu Cys Cys Leu  
 20 25 30  
 Val Tyr Thr Ser Trp Gln Ile Pro Gln Lys Phe Ile Val Asp Tyr Ser  
 35 40 45  
 Glu Thr Ser Pro Gln Cys Pro Lys Pro Gly Val Ile Leu Leu Thr Lys  
 50 55 60  
 Arg Gly Arg Gln Asp Cys Ala Asp Pro Asn Lys Lys Trp Val Gln Lys  
 65 70 75 80  
 Tyr Ile Ser Asp Leu Lys Leu Asn Ala  
 85

<210> 35  
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[illegible]